

FIGURE 30A

FIGURE 30B

FIGURE 30C

401 275 376 386 354	σ ω ω ω
KKKKKK TTO NO	4 6 4 4 6 11 12 0
LREACTAREACTREACTREACTREACTREACTREACTREAC	A X D X X H L L L H H C R C H E C R C H E
X Q X G G G	日 A D X X E E E E E E E E E E E E E E E E E
ONG TDNV FIGTA GTA	L C T C C C C C C C C C C C C C C C C C
R L E L E T K N A V E V V V R A	D W W W D W D W D W D W D W D W D D W D D W D
N A A E E B D D E E E E E E E E E E E E E E E	K K V V V V V V V V V V V V V V V V V V
LSDH VNEA LREA TKN	THATE A TE
K K K K K K K K K K K K K K K K K K K	A E B A T E B A G B B B B B B B B B B B B B B B B B
E C E E E E E E E E E E E E E E E E E E	R Y O R R R I I I I I H X G U U
	RRTO C LHT O LHT O N KTG O O O O O O O O O O O O O O O O O O O
TP P P P P P P P P P P P P P P P P P P	T N R M M M M M M M M M M M M M M M M M M
D N D C	A R X Z H
V V E I A G V W M M M M M M M M M M M M M M M M M M	N N N N N N N N N N N N N N N N N N N
3 3 3 8 3 3 4 8 3 4 8 8 9 1 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	402 276 377 387 356
TNFR1 Fas DR3 TRAIL-R1 TRAIL-R2	TNFR1 Fas DR3 TRAIL-R1 TRAIL-R2

Figure 1

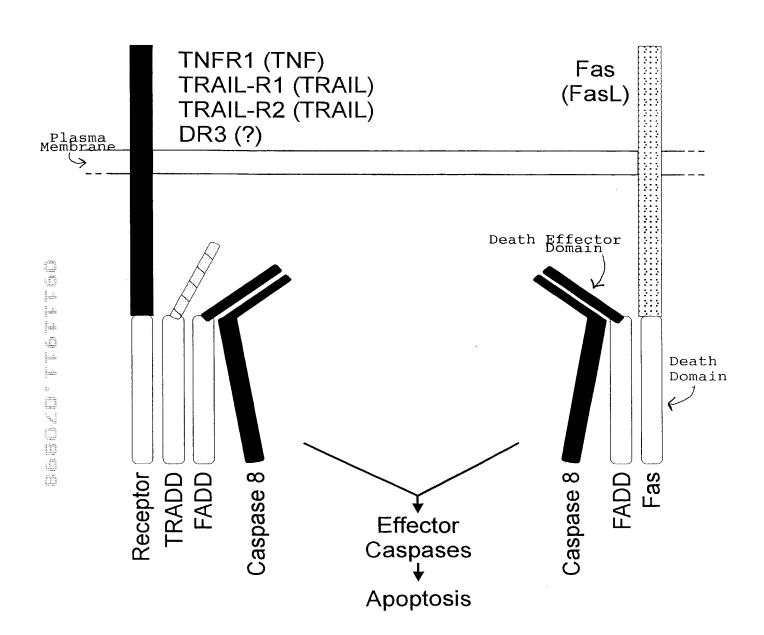


FIGURE 2

RID COMPLEX

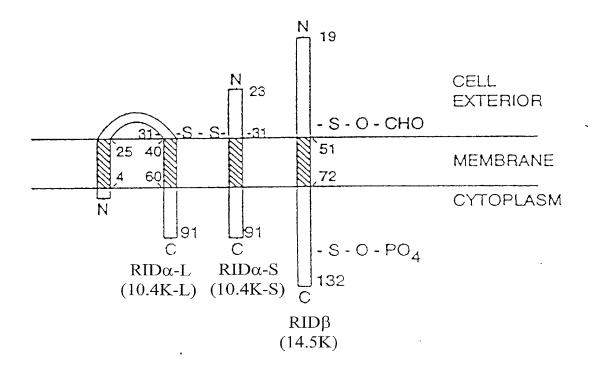


FIGURE 3

RID α -L (10.4K-L)

MIPRVLILLTLVALFCACSTLAAVAHIE signal sequence

60 70 80 <u>I A F I Q F I D W V C V R I A Y L R H H P Q Y R D R T I</u>

90 A D L L R I L

Figure 4A

 $RID\alpha-S$ (10.4K-S)

10 20
AVAHIEVDCIPPFTVYL<u>LYGFVTLILIC</u>

* transmembrane

60 YRDRTIADLLRIL

Figure 4B

```
Pre-RID\beta (14.5K)
```

MKFTVTFLLIICTLSAFCSPTSKPQRHI signal sequence

60 70 80

ISVMVFCSTILALAIYPYLDIGWNAIDA

Transmembrane

 $_{\rm 90}$ $_{\rm 100}$ $_{\rm 110}$ $_{\rm M~N~H~P}$ T F P A P A M L P L Q Q V V A G G F V P A N Q P

120 130 R P P S P T P T E I S Y F N L T G G D D

Figure 4C

Mature-RID β (14.5K)

10 20 SPTSKPQRHISCRFTRIWNIPSCYNEKS

30 40 50 D L S E <u>A W L Y A I I S V M V F C S T I L A L A I Y</u> P Y Transmembrane

60 70 80 L D I G W N A I D A M N H P T F P A P A M L P L Q Q V V

90 100 110 A G G F V P A N Q P R P P S P T P T E I S Y F N L T G G

D D

Figure 4D

81353051.doc

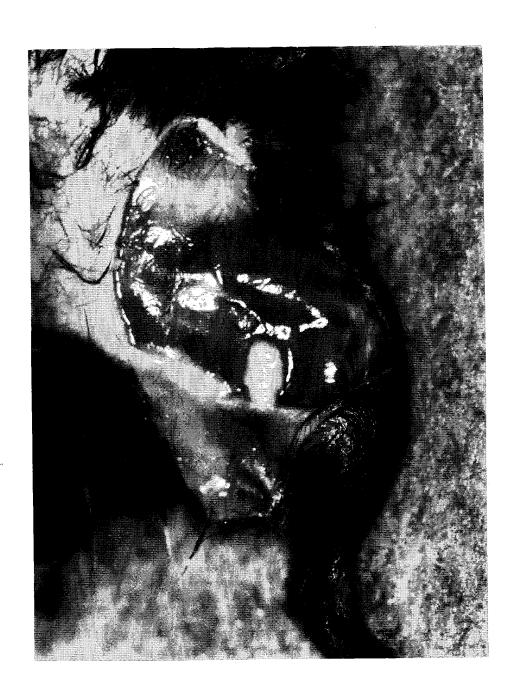
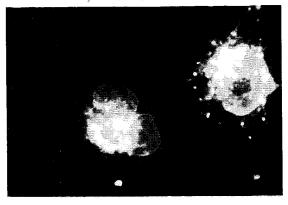


FIGURE 25



FIGURE 24

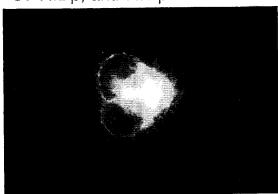
A. RID α , anti-RID α



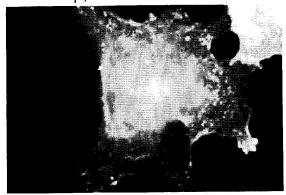
B. $RID\alpha$, anti-Fas



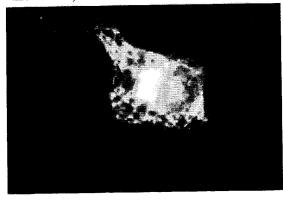
C. RID β , anti-RID β



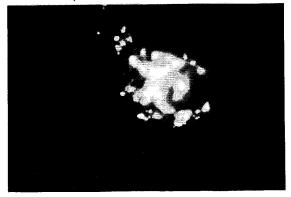
D. RID β , anti-Fas



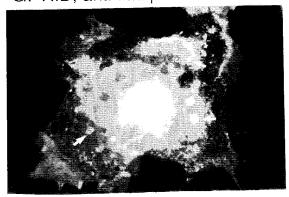
E. RID, anti-RID α



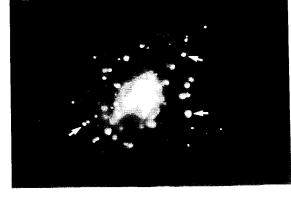
F. RID, anti-Fas



G. RID, anti-RIDβ



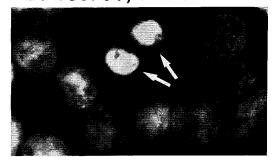
H. RID, anti-Fas



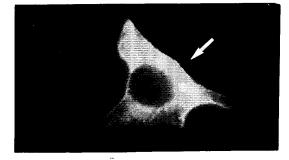
A. rec700, anti-DPB



B. *rec*700, DAPI



C. RID, anti-RIDβ



D. RID, DAPI

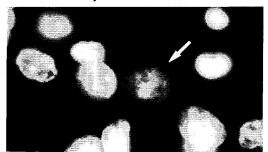


FIGURE 6

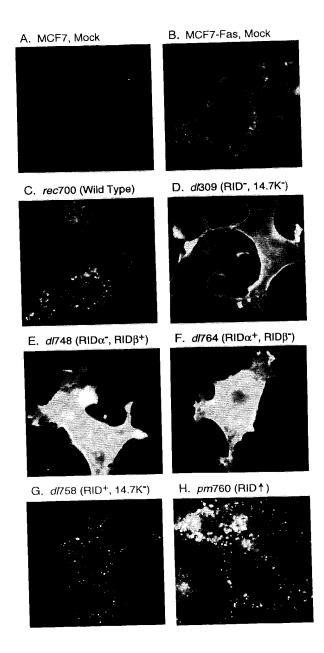


FIGURE 9

FIGURE 5

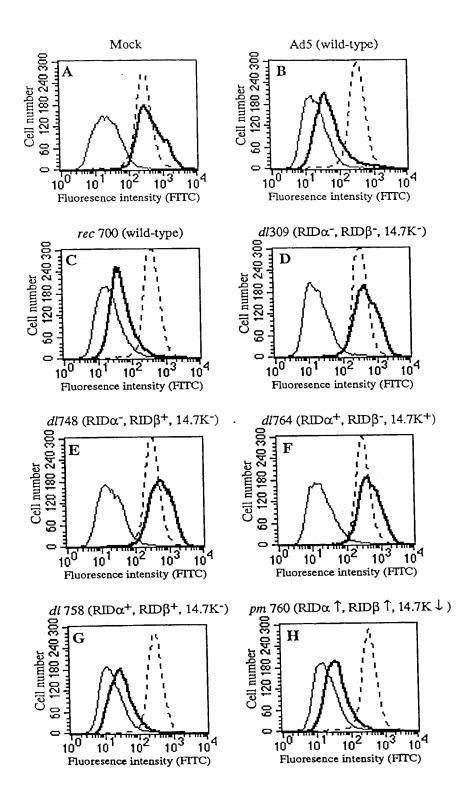


FIGURE 7

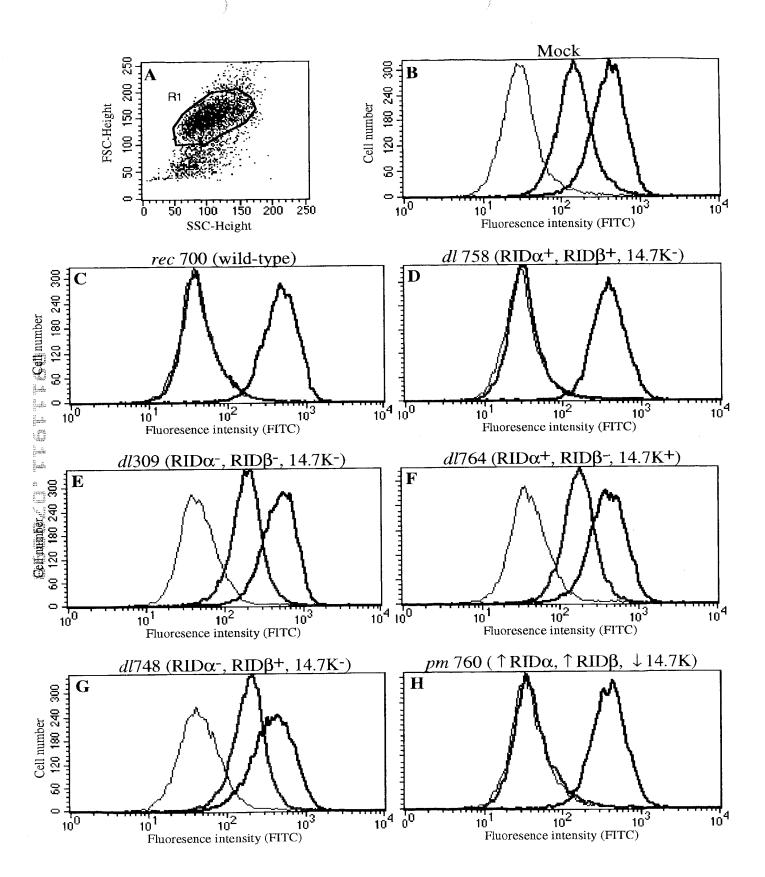


FIGURE 8

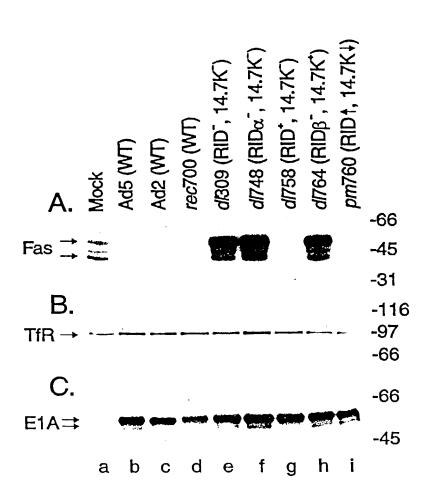
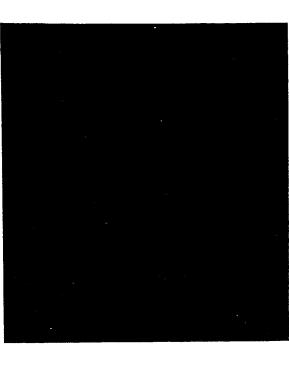


FIGURE 10



d/309 (RID"), Baf ⁺

ERp72→



a b c d e

Mock 700 309
Baf - + - + - +
TfR -----

FIGURE 13E

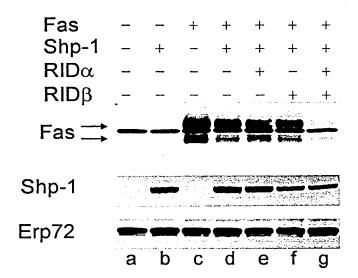


FIGURE 14

FIGURE 15

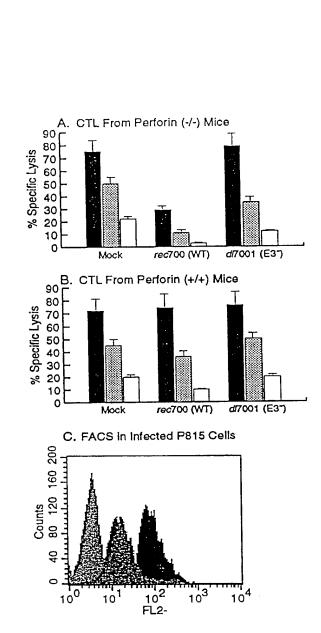


FIGURE 16

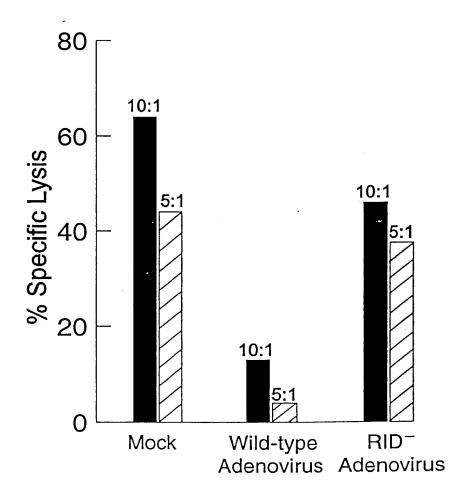
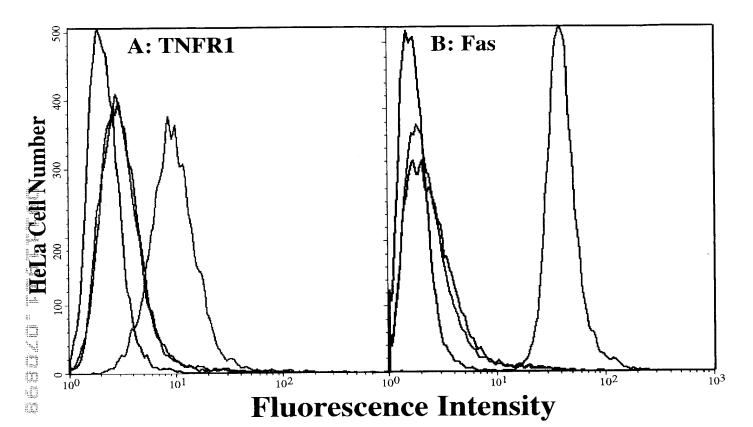


FIGURE 17



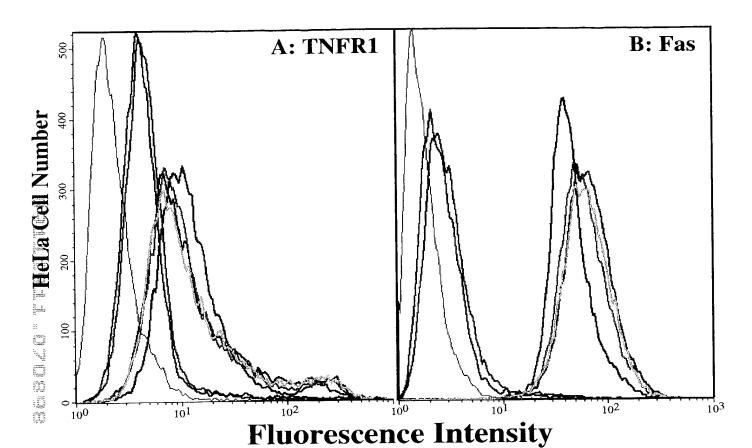
Mock - 93%

rea 700 (Wild type) - 16%

dl712 (↑RID) - 18%

Unstained control - 1.5%

Mock - 100% ┌ॡ 700 (Wild type) - 11% dl712 (↑ RID) - 14% Unstained control - 1.5%



Mock - 92%

700 (Wild type) - 29%

dl753 (RIDα-) - 85%

dl764 (RIDβ-) - 84%

dl712 (†RID)- 24%

Unstained Control - 2%

Mock - 100%

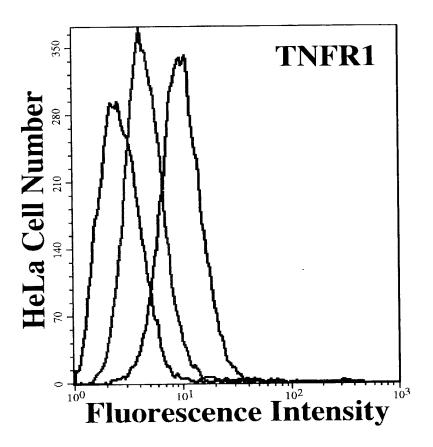
780 700 (Wild type) - 4%

dl753 (RIDα-) - 100%

dl764 (RIDβ-) - 100%

dl712 (TRID) - 2%

Unstained Control - 1%



Mock - 93% 231-10 (E3⁺ vector) 24 hr. p.i. - 35% 231-10 (E3⁺ vector) 48hr. p.i. - 11%

Hours p.i. 16 16 18 20 22 24 30

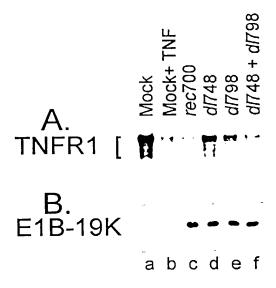


FIGURE 23

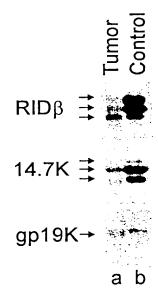


FIGURE 26

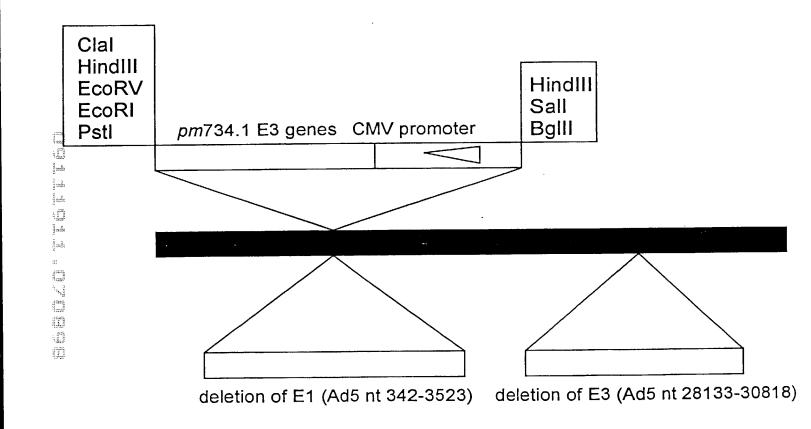
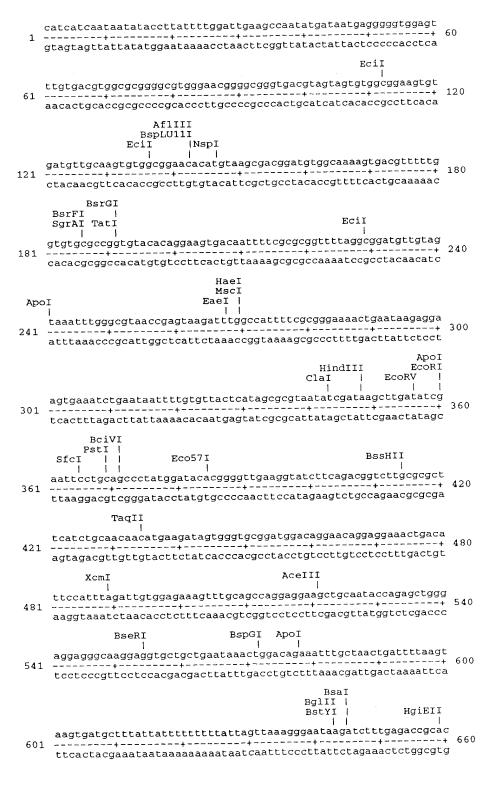
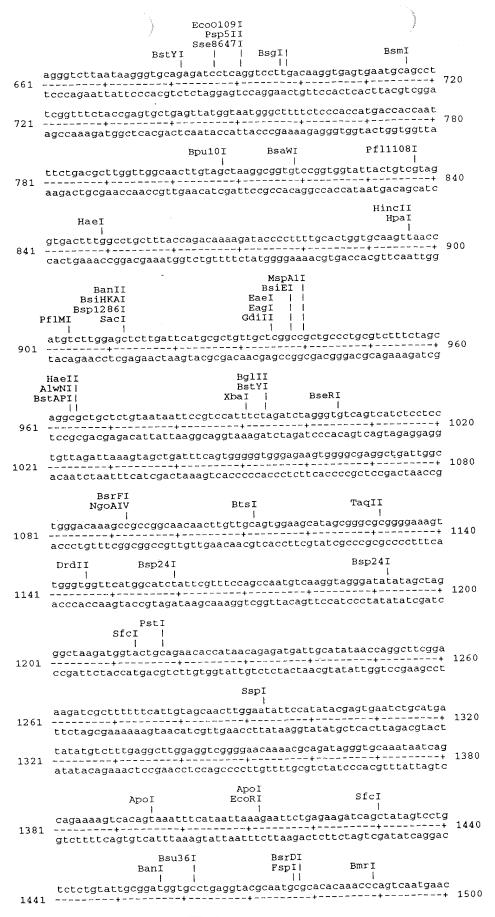
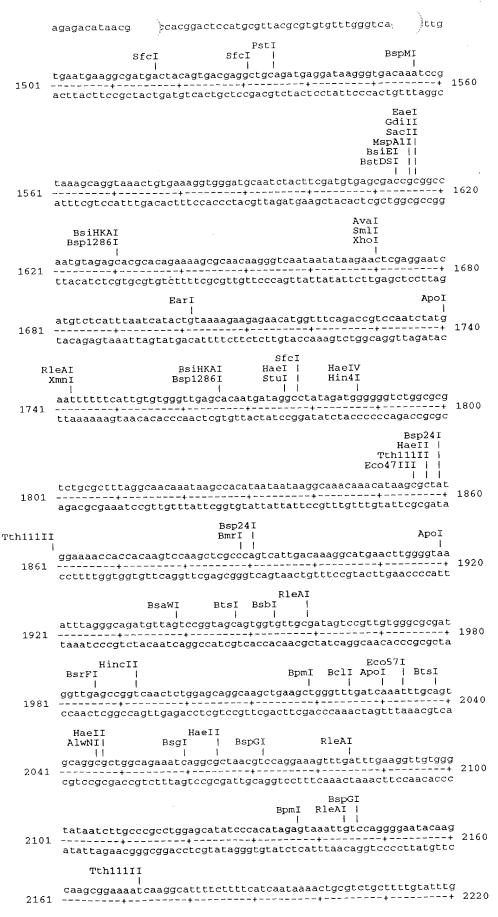
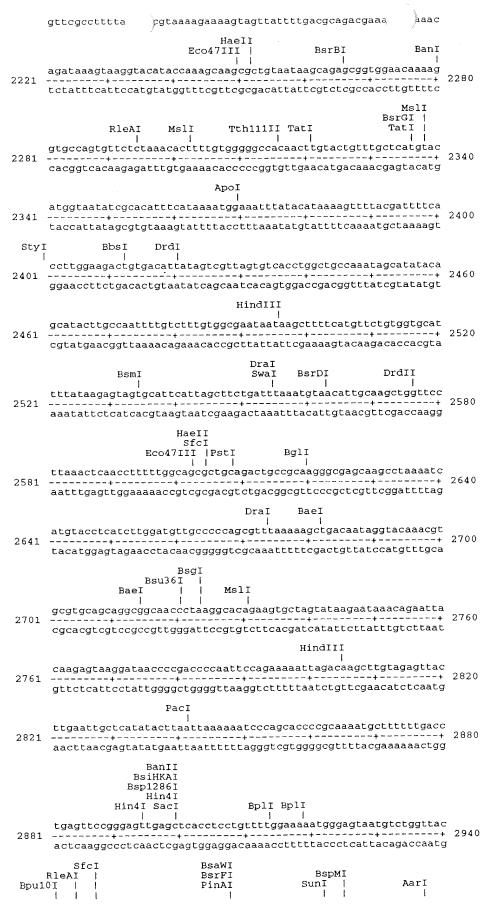


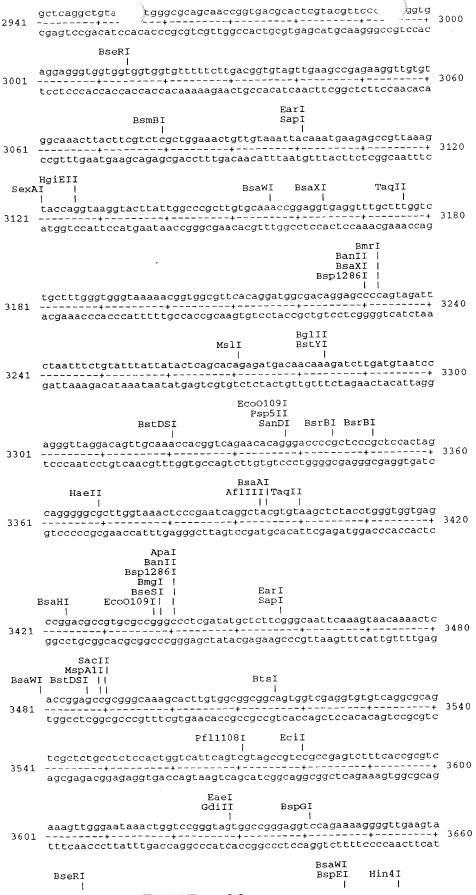
FIGURE 27

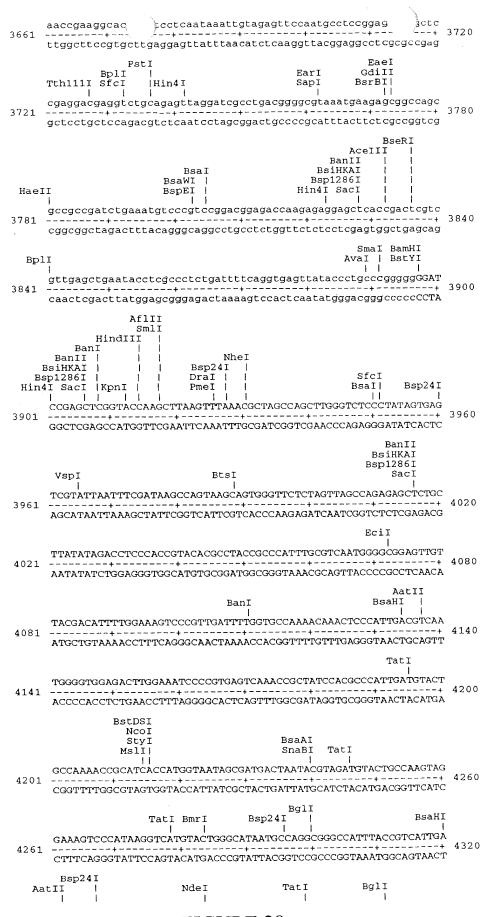




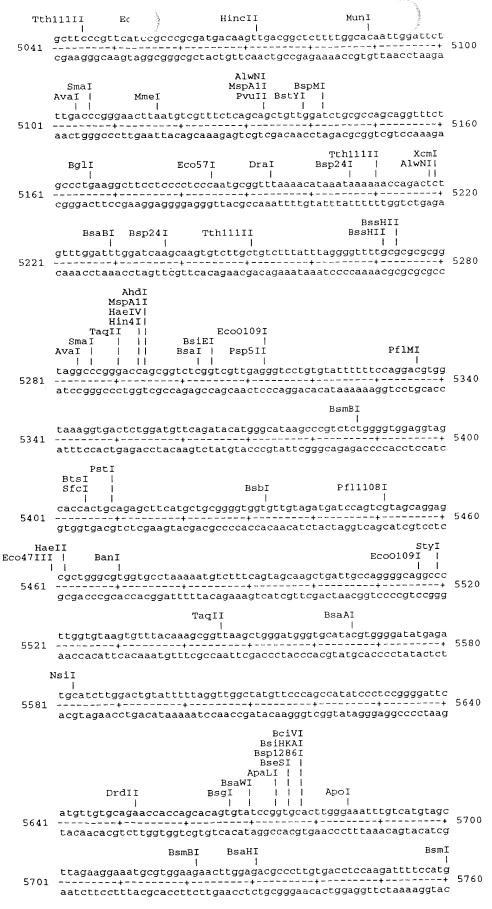


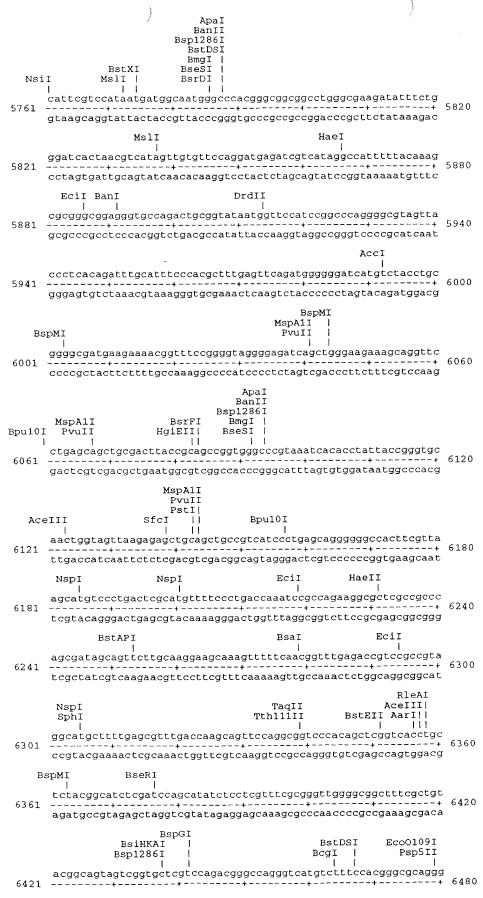


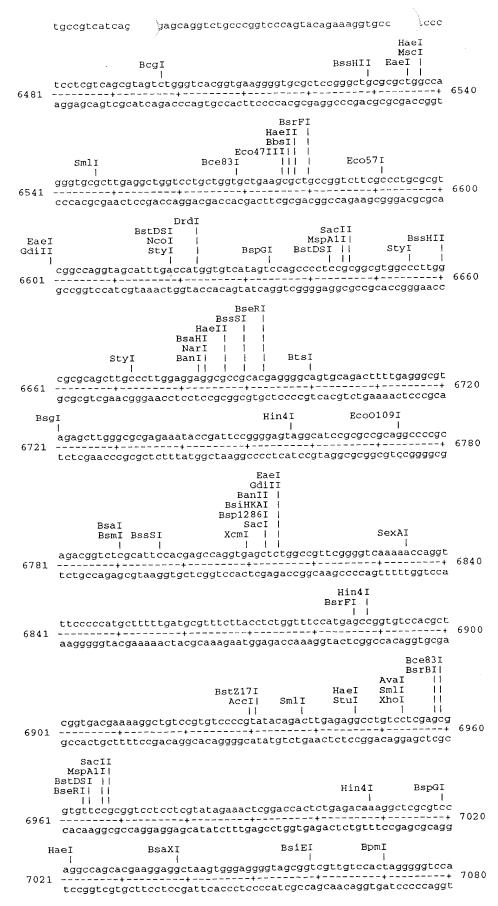


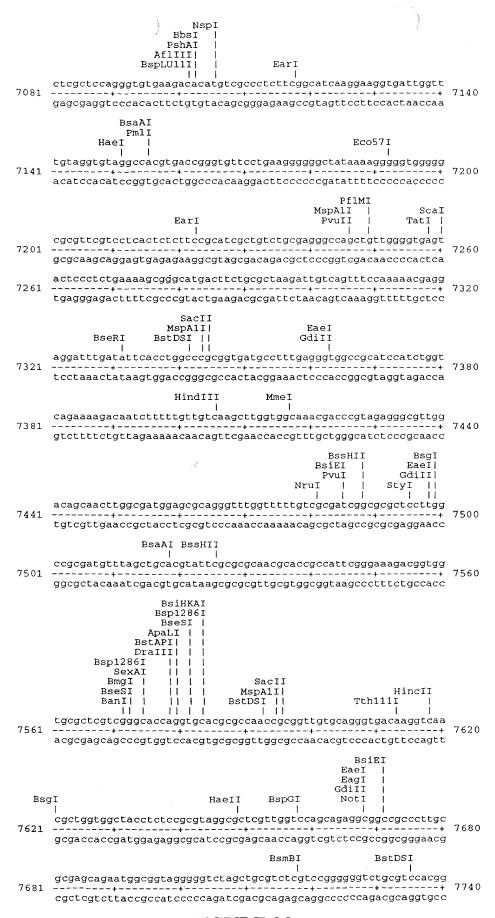


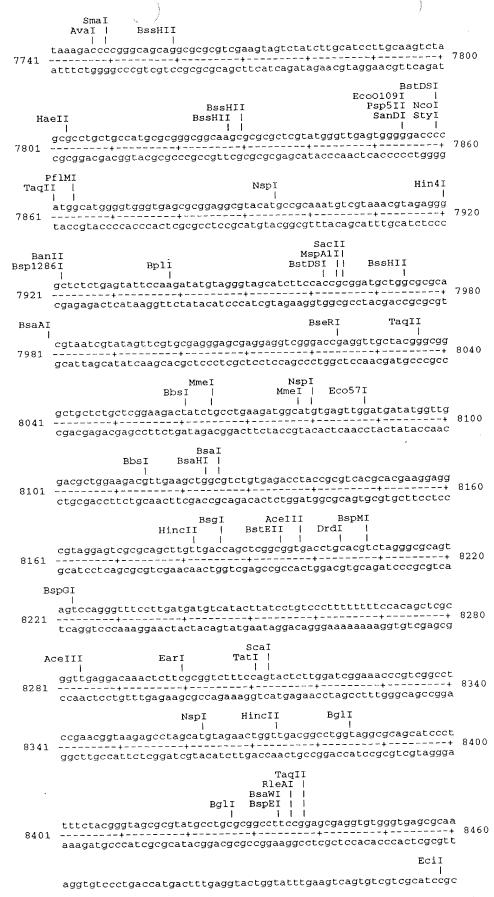
4321	CGTCAATAGGGG ACTTGGCATATGATACACTTGATGTACTGCCAAGTG GCAGTTATCCCCCGCATGAACCGTATACTATGTGAACTACATGACGGTTCACCCGTCAAA	4380
4381	TaqII AatII BsaHI ACCGTAAATAGTCCACCCATTGACGTCAATGGAAAGTCCCTATTGGCGTTACTATGGGAA TGGCATTTATCAGGTGACTCACTGCAGTTACCTTTCAGGGATAACCGCAATGATACCCTT	4440
4441	AatII BsaHI BglI BglI CATACGTCATTATTGACGTCAATGGGCGGGGGTCGTTGGGCGGTCAGCCAGGCGGGCCAT	4 500
4501	TTACCGTAAGTTATGTAACGCGGAACTCCATATATGGGCTATGAACTAATGACCCCGTAA+ AATGGCATTCAATACATTGCGCCTTGAGGTATATACCCGATACTTGATTACTGGGGCATT	4560
4561	Aflili MluI VspI SpeI . HincII TTGATTACTATTAATAACTAGTCAATAATCAATGTCAACGCGTATATCTGGCCCGTACAT AACTAATGATAATTATTGATCAGTTATTAGTTACAGTTGCGCATATAGACCGGGCATGTA HincII	4620
Nrı	Bsp24I AccI II Bpu10I HindIII SalI I	
4621	GCGCTTCGTCGCGGTTTTGCGGATTCGTCTAAGAAGTACGTTAAGttcgaacagc	4680
Bs	III AflII tYI SmlI acagatcttgggcgtggcttaagggtgggaaagaatatataaggtgggggtcttatgtag tgtctagaacccgcaccgaattcccaccctttcttatatattccaccccagaatacatc	4740
4741	Bsp1286I ttttgtatctgttttgcagcagccgccgccgccatgagcaccaactcgtttgatggaagc+ aaaacatagacaaaacgtcgtcggcggcggtactcgtggttgagcaaactaccttcg BstDSI BanII NcoI	4800
4801	BsiHKAI StyI Bsp1286I NspI BpmI SacI SphI BpmI attgtgagctcatatttgacaacgcgcatgcccccatgggcgggtgcgtcagaatgtg taacactcgagtataaactgttgcgcgtacgggggtacccggccccacgcagtcttacac Pf11108I BanII BsaI	4860
4861	sp1286I Bsp24I	4920
	Pst	4980
4981		5040

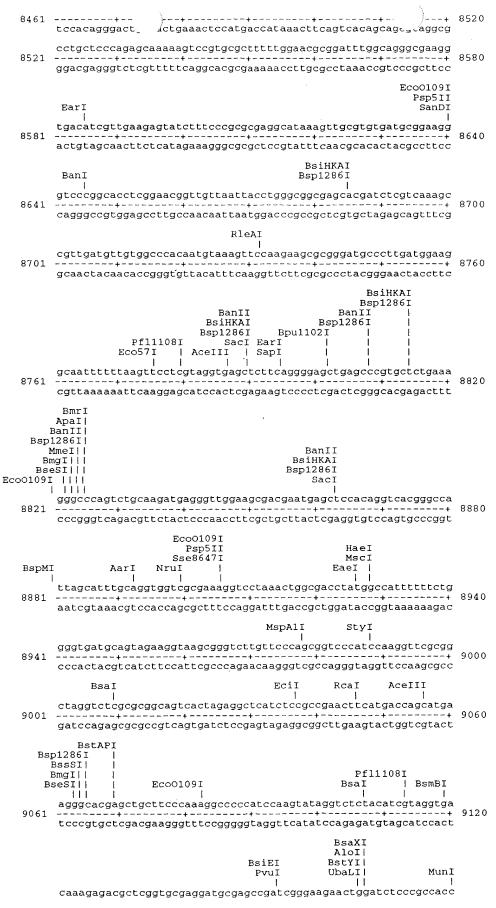


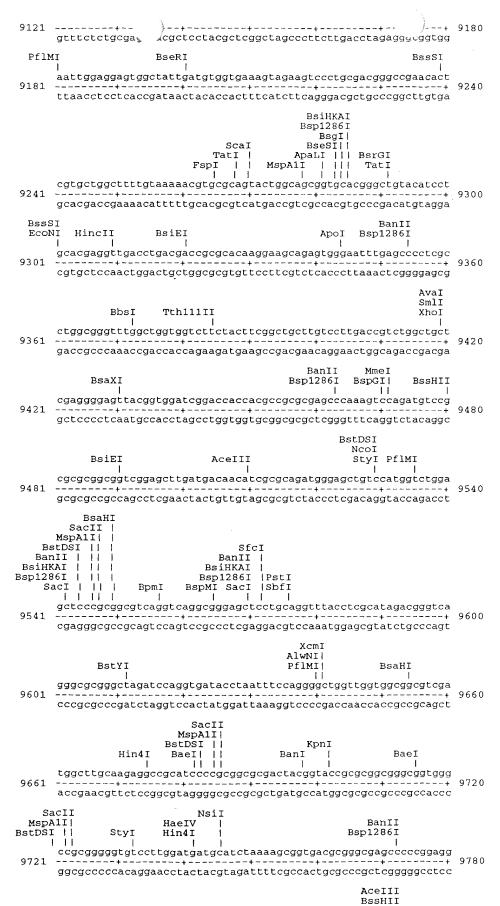


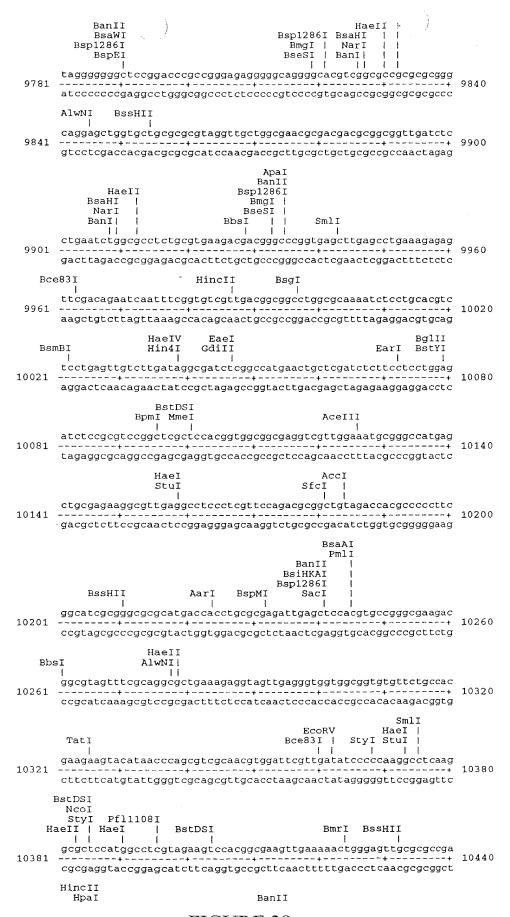


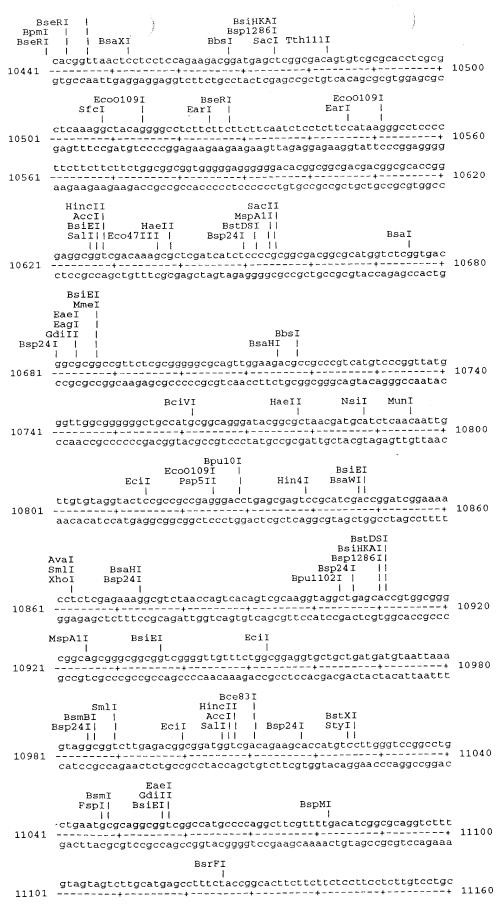


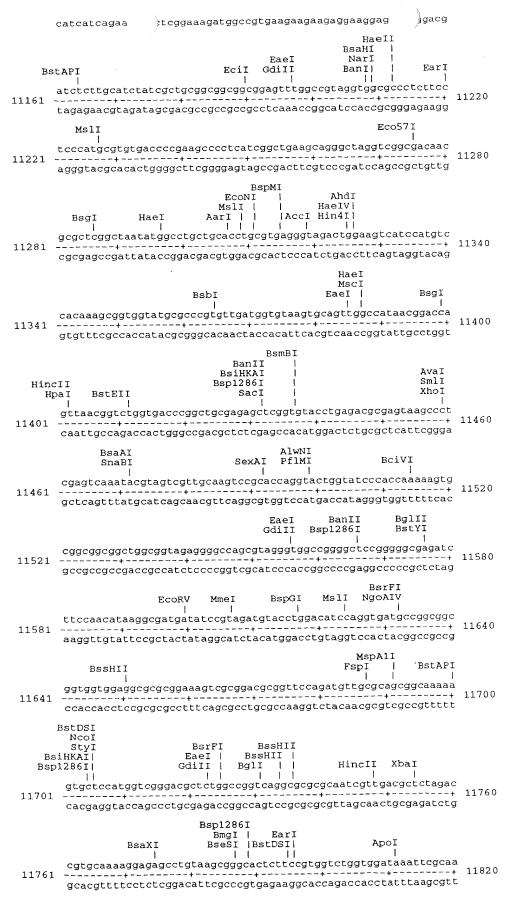


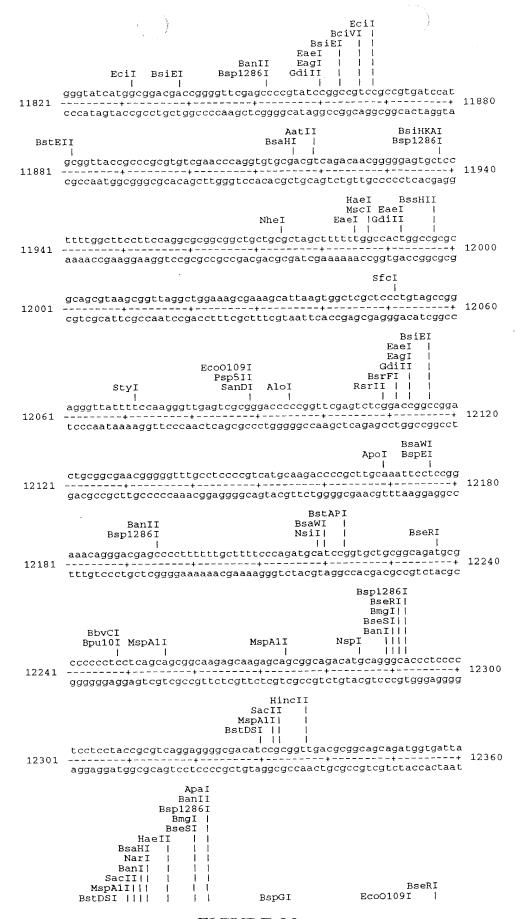


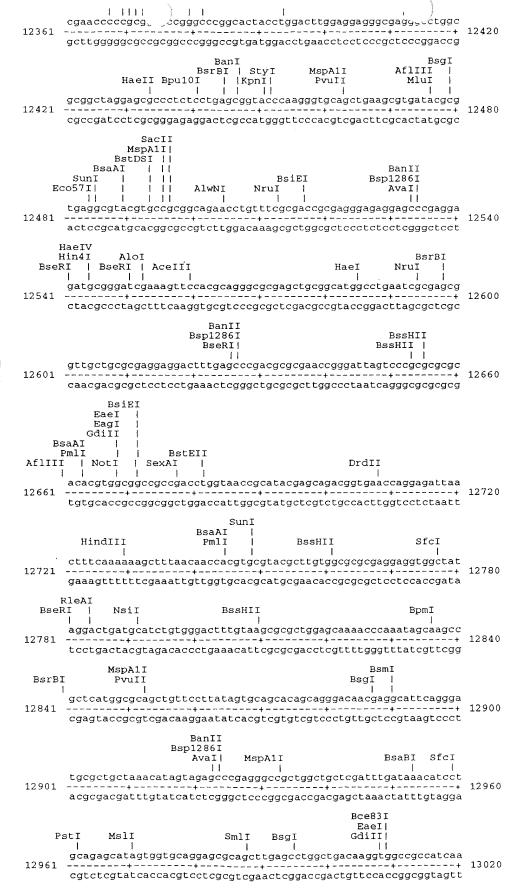


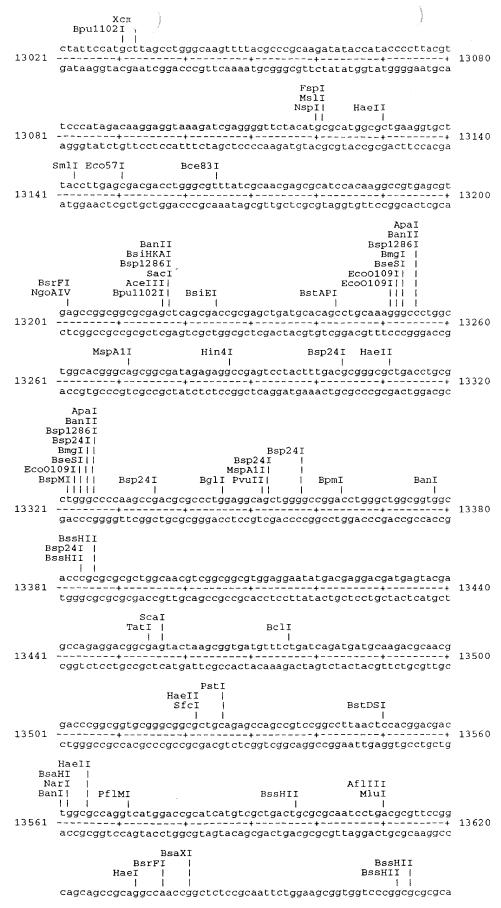


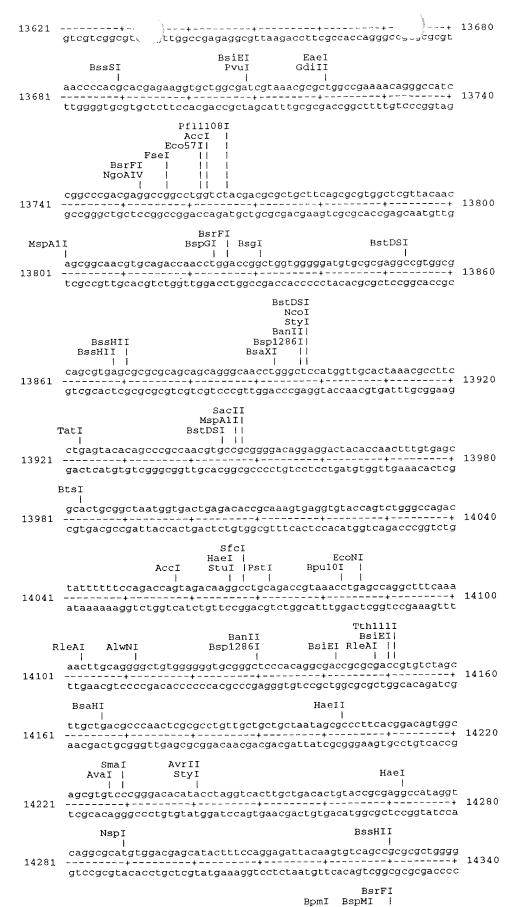


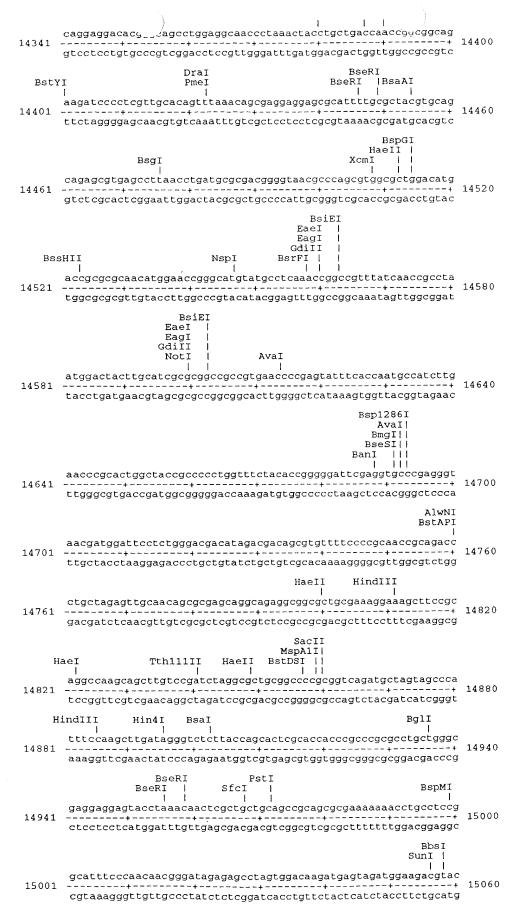






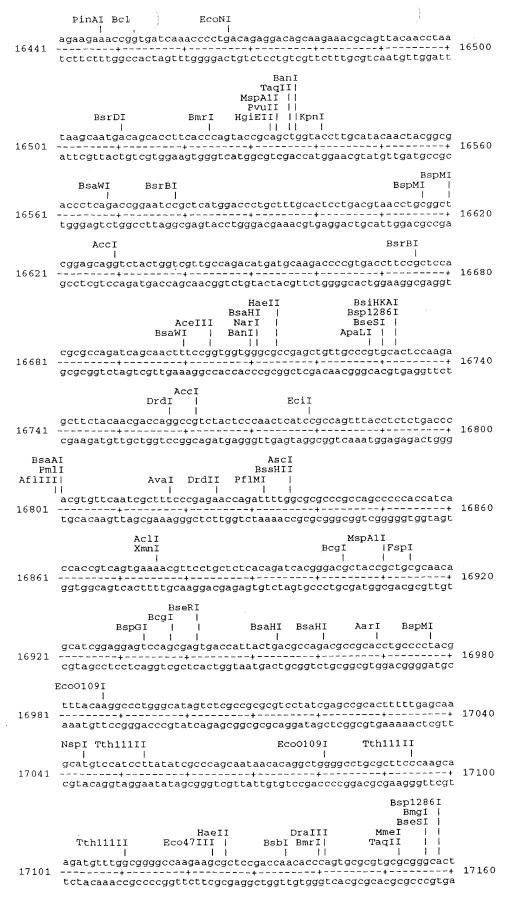


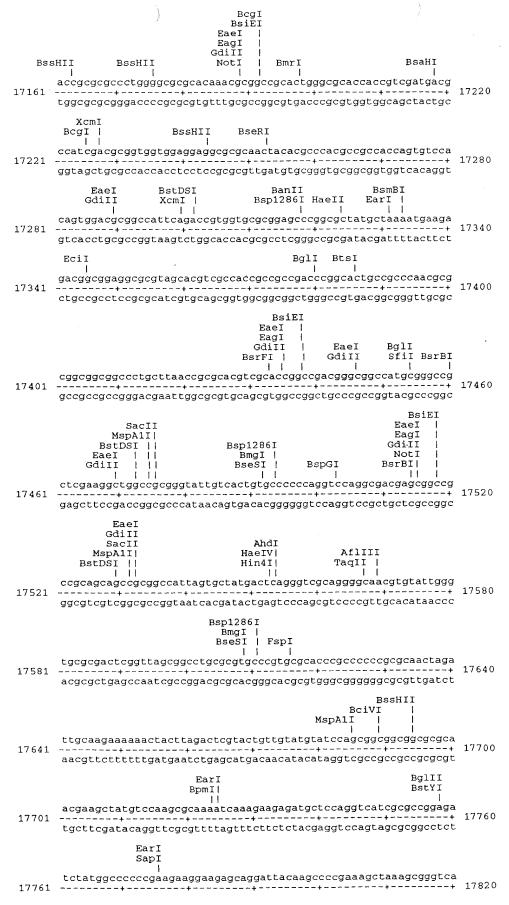




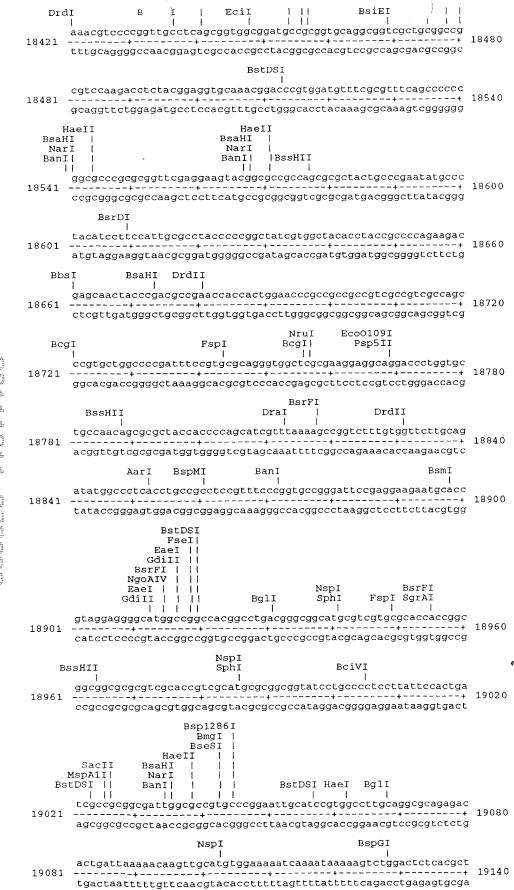
	BsiHKA		Dem 2.4.T		BsiEI	
	Bsp1286	İ	Bsp24I		1	
15061	gcgcaggag	gcacagggacgtgcd +	aggcccgcgc:	ccgcccacccgtcg +	tcaaaggcacgac	15120
	cgcgtcct	cgtgtccctgcacgg	ıtccgggcgcg	ggcgggtgggcagc	agtttccgtgctg	
-	RleAI					
Bsp24	MspA1I 		Hin4I	Dre	dī	
	cgtcagegg	gggtctggtgtggg	 aggacgatgac	teggeagaegaeag	 cagcgtcctggat	
15121		cccagaccacacct		+	++	15180
	30030030				DraI	
			spI l			
15181		gagtggcaacccgtl -+	+		+	15240
	aaccctcc	ctcaccgttgggca	acgcgtggaa	.gcggggtccgaccc	ctcttacaaaatt	
				BanI BstXI		
				BstDSI		
		-		NcoI StyI		
			St	yI HaeI 		
15241	aaaaaaaa	aagcatgatgcaaa: -++	ataaaaaactc	accaaggccatggc	accgagcgttggt	15300
10241		ttcgtactacgttt			•	
				Eco0109		
				Psp5I Sse86 4 7		
		Bss	HII	BseRI	1	
15201	tttcttgt	attccccttagtat	geggegegegg	gcgatgtatgaggaa	ggteeteeteet	15360
15301	aaagaaca	-+	cgccgcgcgc	gctacatactcctt	ccaggaggaggga	13300
		H	aeII			
		BsaH Nar				
Pfl1	1081	BanI		HaeII		
	cctacgag	۱ agtgtggtgagcgc	ı ı ggcgccagtgç	geggeggegetgggt	tetecettegatg	15400
15361		-++ tcacaccactcgcg			+	15420
			BanI			
			SacII MspA1I			
	BspGI	B	stDSI Kp	nI BspMI		
	ctcccctg	gacccgccgtttgt	 gcctccgcggt	l tacctgcggcctac	cggggggagaaaca	15400
15421		-+	+	+	+	15480
		BanI		MslI Sex		
	a act coat	tactctgagttggc		 	atacctaataaca.	
15481		-+			+	15540
	cgtaggca	atgagactcaaccg	rggggataag	ctgtggtgggcaca	catygactactigt	
Ah	HincII ndI					
HaeI Hin4		HaeIV Hin4I			PshAI BstDSI	
111114	11 1	1		a. a aa. aa. aa. aa.		
15541		acggatgtggcatc			+	15600
	tgttcagt	tgcctacaccgtag	ggacttgatg	gtcttgctggtgtc	gttgaaagactggt	
			SmaI		th111II HaeIV	
		SfcI I	AvaI		Hin4I	
15.00	cggtcatt	caaaacaatgacta	acagecegggg	gaggcaagcacaca	gaccatcaatcttg	15660
12001	gccagtaagttttgttactgatgtcgggccccttccgttcgtgtgtctggtagtagtag					
	BsiEl					
	AhdI BsiEI	 				
	BsaWI BsrFI	 	FIGUE	DE 20		
1	HaeIV		LIGOL	XL: 20		
3	Hin4I	1				

P	inAI E Ns.	
15661	acgaccggtcgactggggcggcgctgaaaaccatcctgcataccaacatgccaaatg	15720
	XmnI	
15721	tgaacgagttcatgtttaccaataagtttaaggcgcgggtgatggtgtcgcgcttgccta	15780
	AceIII TaqII AvaI	
15781		15840
	BsiEI BsiHKAI	
В	saI PvuI Bsp1286I	
15841	actactccgagaccatgaccatagaccttatgaacaacgcgatcgtggagcactacttga tgatgaggctctggtactggtatctggaatacttgttgcgctagcacctcgtgatgaact	15900
	Eco57I	
15901	aagtgggcagacagaacggggttctggaaagcgacatcggggtaaagttttgacacccgca	15960
	BmrI Tth111I	
15961	acttcagactggggtttgaccccgtcactggtcttgtcatgcctggggtatatacaaacg	16020
16021	aagccttccatccagacatcattttgctgccaggatgcggggtggacttcacccacagcc + ttcggaaggtaggtctgtagtaaaacgacggtcctacgccccacctgaagtgggtgtcgg	16080
	RleAI	
Bpu	4 []	
16081	gcctgagcaacttgttgggcatccgcaagcggcaacccttccaggagggctttaggatca + cggactcgttgaacaacccgtaggcgttcgccgttgggaaggtcctcccgaaatcctagt	16140
Pfl1	108I MmeI BpmI BsaHI BglI	
16141	cctacgatgatctggagggtggtaacattcccgcactgttggatgtggacgcctaccagg	16200
	BtsI	
16201	cgagcttgaaagatgacaccgaacagggcgggggtggcgcaggcag	16260
	SacII BsrFI	
Mo	EarI MspAlI BsrDI spAlI BstDSI MmeI	
110		
16261		16320
	cgtcgccgcgccttctcttgaggttgcgccgtcggcgccgttacgtcggccacctcctgt	
	BcgI BseRI BbvCI BbvCI	
	Bpu10I Bpu10I Bpu10I Bgu10I BssHII	
	tgaacgatcatgccattcgcggcgacacctttgccacacgggctgaggagaagcgcgctg	
16321		16380
	acttgctagtacggtaagegeegetgtggaaaeggtgtgeeegaeteetettegegegae .	
	BsiEI EaeI	
	EagI GdiII FspI	
	MspAll MspAll Aval	
16201	aggccgaagcagcggccgaagctgccgccccgctgcgcaacccgaggtcgagaagcctc	16440
16381	tecggettegtegecggettegaeggegggggegaegegttgggeteeagetetteggag	~0330
	BsaWI	

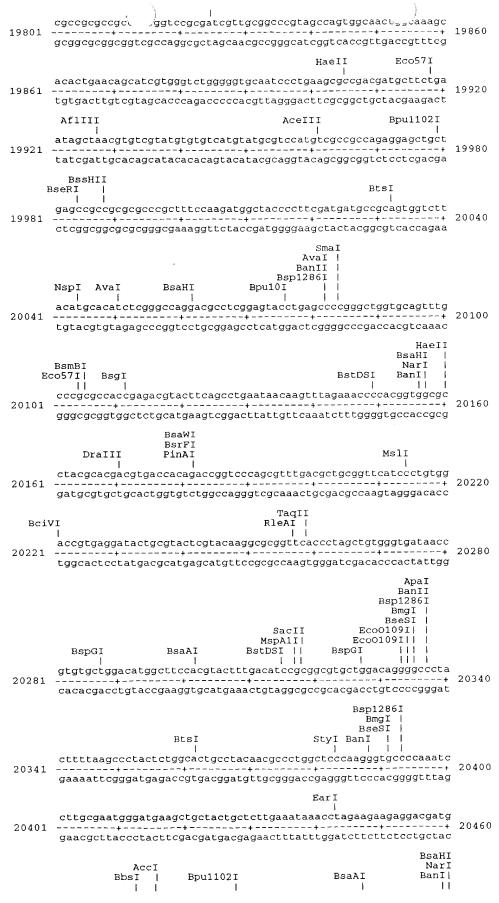


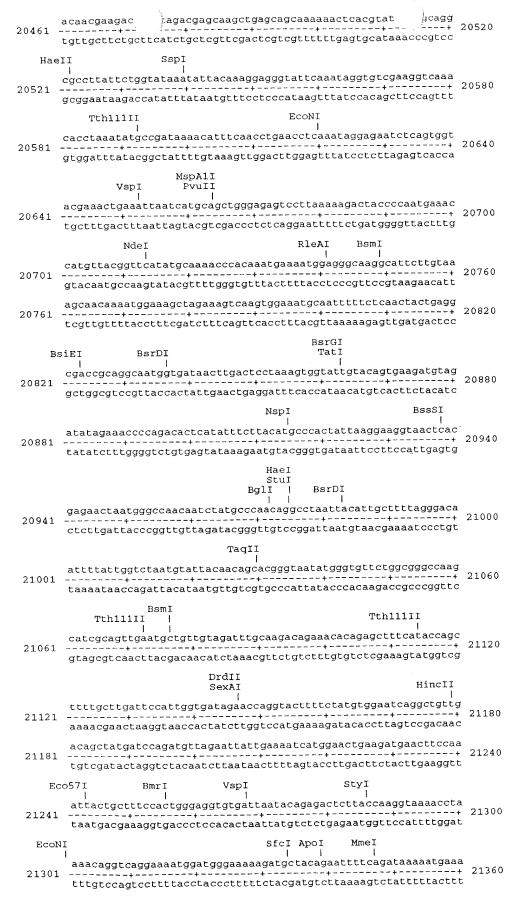


	agataccgggg	cttcc	ttetegteet	aatgttcggg	ggctttcgatt	ccagt	
				BsgI			
	aaaagaaaaagaa	agatgatg	atgatgaact	 tgacgacgag	ggtggaactgct	gcacgcta	
17821	ttttcttttctt					+	17880
				lIII			
			Hinc)	MluI [I			
			Accl Sali		III	BanI	
	ccgcgcccaggcg	acaaatac	1	H	i	1	
17881				+-		+	17940
	ggcgcgggtccgctgcccatgtcacctttccagctgcgcattttgcacaaaacgctgggc HaeII						
			Eco47III				
17941	gcaccaccgtagt	ctttacgc	ccggtgagcg	ctccacccg	cacctacaagcg	cgtgtatg	18000
1,241	cgtggtggcatca						
	Ec	:00109I Psp5II			AvaI		
		se8647I	BspMI	HaeI	Bce83I HaeIII		
	Tth1111	1 1	1 1		1.1	raa pattta	
18001			+-	+-		+	18060
	tactccacatgcc	gctgctcc	tggacgaact			CCCCaaac	
			NspI	BspGI MspA1I		BsbI	
	cctacggaaagcg	gcataagg	l acatgctggc	gttgccgct	ı ggacgagggcaa	cccaacac	10100
18061	ggatgcctttcgc	cgtattcc	tgtacgaccg	+- caacggcga		gggttgtg	18120
			AlwN				
		BtsI	BstAP: A arI	I I			
	Bs	SfcI SpMI I	BstAPI PstI	ļ 			
18121	gatcggatttcgggcattgtgacgtcgtccacgacggcgcgaacgtggcaggcttcttt					18180	
	BanI						
					TaqII MspA1I	1	
				i .	PvuII 	KpnI 	
18181		+-		+	+	+	18240
	togogooggatttogogotoagaccactgaacogtgggtggcacgtegactaccatgggt						
]	HaeII AlwNI				В	BanII sp1286I	
В	sgI PflMI			BstDSI 		AvaI	
18241	agcgccagcgact	ggaagatg	stcttggaaaa	aaatgaccgt	ggaacctgggcl	rggagcccg	18300
	tcgcggtcgctgaccttctacagaaccttttttactggcaccttggacccgacctcgggc						
			Tth Hae	111II II			
	BspMl Bpml		BsaHI NarI				
	EaeI GdiII	l	BanI AarI	 BmrI	BstDS:	I.	
	1	İ	1 11	i i i		l	
18301	aggteegegtgeggeaatcaagcaggtggegcegggactgggegtgcagaccgtggacg +					18360	
	BsgI XcmI						
	1	ctaccadf;	agcaccacta:	ttgccaccac	-	tggagacac	
18361	ttcagatacccactaccagtagcaccagtattgccaccgccacagagggcatggagacac+ aagtctatgggtgatggtcatcgtggtcataacggtggcggtgtctcccgtacctctgtg						
	BsgI						
				SacII		BsiEI EaeI	
	В	MspA1I bvCI		MspA1I		EagI diII	

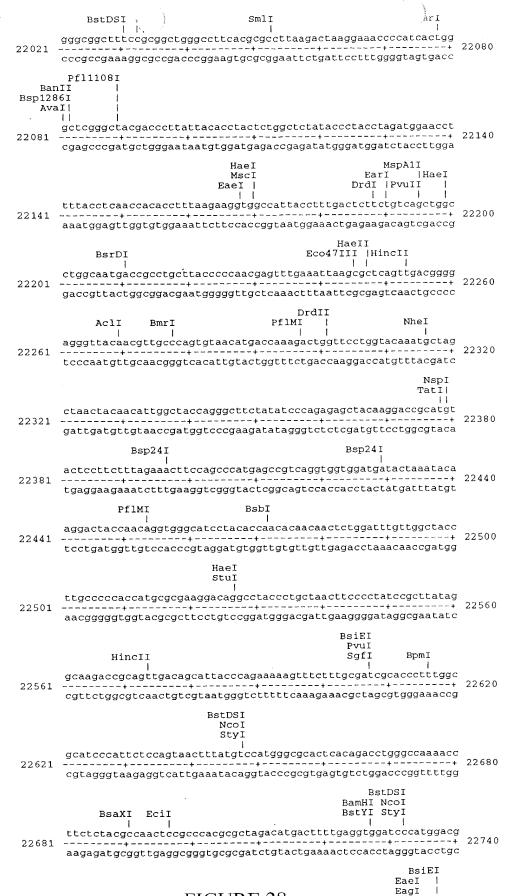


	BbsI BsmBu						
		a					
19141		19200					
	gcgaaccaggacattgataaaacatcttaccttctgtagttgaaacgcagagaccggggc BanI BsrBI						
	BanI BsrBI EcoRV Eco57I						
	cgacacggctcgcgcccgttcatgggaaactggcaagatatcggcaccagcaatatgag	c					
19201		19260					
		9					
	HaeII BanII BsaHI Bsp1286I						
	Nari MspAli Bani Pvuli BsrBi Apol						
		t					
19261		+ 19320					
	ccaccgcggaagtcgaccccgagcgacacctcgccgtaatttttaaagccaaggtggca	a					
	BbvCI HaeI Bpu10I						
	StuI HaeI AlwNI						
19321	aagaactatggcagcaaggcctggaacagcagcacaggccagatgctgagggataagtt						
19321	ttettgataccgtcgttccggaccttgtcgtcgtgtccggtctacgactccctattcaa	-					
	HaeI						
	MmeI ApoI HaeI						
		n					
19381	aaagagcaaaatttccaacaaaaggtggtagatggcctggcctctggcattagcggggt	+ 19440					
	tttctcgttttaaaggttgttttccaccatctaccggaccggagaccgtaatcgcccac						
	HaeI MscI						
	EaeI BglI BtsI HindIII						
10441	gtggacctggccaaccaggcagtgcaaaataagattaacagtaagcttgatccccgccc						
19441	cacctggaccggttggtccgtcacgttttattctaattgtcattcgaactaggggcggga						
	BpmI						
	BsiEI BstDSI						
	BseRI BsaXI EaeI Hin4I						
	EagI Tth111I						
	GdiII BsaXI BsrFI Hin4I						
		g					
19501							
	gggcatctcctcggaggtggccggcacctctgtcacagaggtctccccgcaccgcttttc						
	Hin4I SunI						
19561	cgtccgcgcccgacagggaagaaactctggtgacgcaaatagacgagcctccctc	c + 19620					
	gcaggcgcggggctgtcccttctttgagaccactgcgtttatctgctcggagggag						
	BstAPI Bsp24I HaeI! BstDSI						
	StuI NcoI						
	Bsp24I StyI BplI BseRI XcmI BsaWI						
		a					
19621		+ 19680					
	ctcctccgtgatttcgttccggacgggtgggtgggcagggtagcggggtaccgatggcc	C					
	BspGI BspMI						
19681	gtgctgggccagcacaccccgtaacgctggacctgcctccccccgccgacacccagca	g + 1974 0					
	cacgacccggtcgtgtgtgggcattgcgacctggacggagggggggg						
	TaqII BsiEI						
		g 10555					
19741	tttggacacgacggtccgggctggcggcaacaacattgggcaggatcggcgcgcaggg	+ 19800 c					
	RsrII BsiEI						
	MspAll Pvul EICLIDE 20						



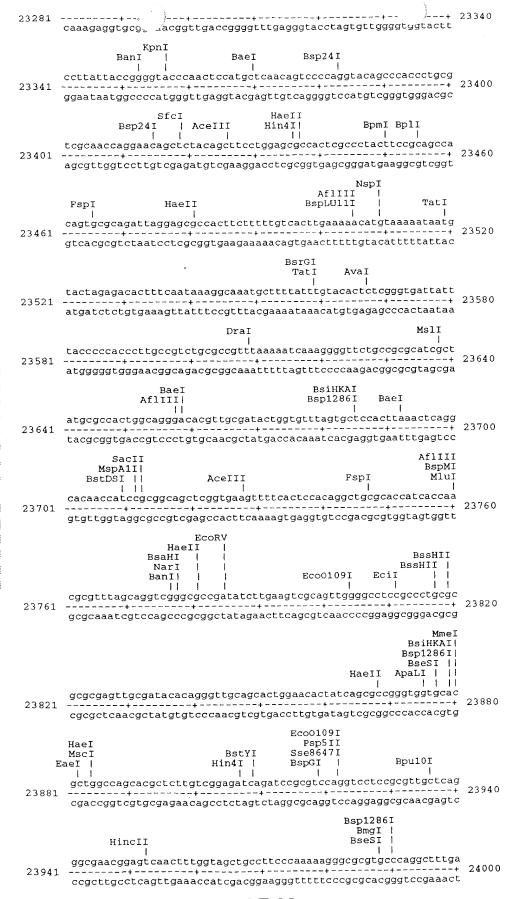


	BstDSI					
	NcoI StyI PflMI ApoI					
21361	taagagttggaaataattttgccatggaaatcaatctaaatgccaacctgtggagaa	aatt + 2:	1420			
	attctcaacctttattaaaacggtacctttagttagatttacggttggacacctctt					
Т	HaeII Fati Eco47III MmeI Tati					
21/21		aacg	1480			
21421	aggacatgaggttgtatcgcgacataaacgggctgttcgatttcatgtcaggaaggt	ttgc				
A	ApoI MmeI Pfl1108I Aval	maI I 				
21481	taaaatttetgataacccaaacacctacgactacatgaacaagcgagtggtgct	cccg	1540			
	atttttaaagactattgggtttgtggatgctgatgtacttgttcgctcaccaccga					
	BsiHKAI Styl Bsp12861 Tth1111	I.				
215/1	ggttagtggactgctacattaaccttggagcacgctggtcccttgactatatggac		1600			
21341	ccaatcacctgacgatgtaattggaacctcgtgcgaccagggaactgatatacctg		1000			
HincI	XcmI HaeI II					
		ggca _				
21601	agttgggtaaattggtggtggtgtacgaccggacgcgatggcgagttacaacgac	+ 2: ccgt	1660			
	Bsp1286I					
E	BmgI BanI BsrDI BseSI MslI 					
21661	atggtcgctatgtcgccttccacatccaggtgcctcagaagttctttgccattaaa:		1720			
21001	taccagcgatacacgggaaggtgtaggtccacggagtcttcaagaaacggtaattt					
	Pfl1108I Eco57I					
	BanII HincII	rdII				
			1780			
21721	aggaagaggacggcccgagtatgtggatgctcaccttgaagtccttcct					
	AvrII					
	Styl Banll BsiHKAl					
	Bsp12861 Pst1					
S	fcI SacI Bsu36I HincII					
21781	ttctgcagagctccctaggaaatgacctaagggttgacggagccagcattaagttt		1840			
	aagacgtctcgagggatcctttactggattcccaactgcctcggtcgtaattcaaa	ctat				
	BstDSI BsaXI SmlI Ncol BsaXI SmlI StVI BsbI I RleAI i	HaeI				
	StyI BsbI RleAI	Ī				
21841	cgtaaacggaaatgcggtggaagaagggtaccgggtgttgtggcggaggtgcgaa	+ 2	1900			
	BsaXI					
	Bce83I Hin4I EciI 					
21901						
	ggtacgaatctttgetgtggttgctggtcaggaaattgctgatagagaggcggcggttgt					
M	Bsp1286I BmgI DI BseSI	BmrI				
Nsı	pr BSeSI	1				
21961						
	SacII					
	MSPAII FIGURE 28					

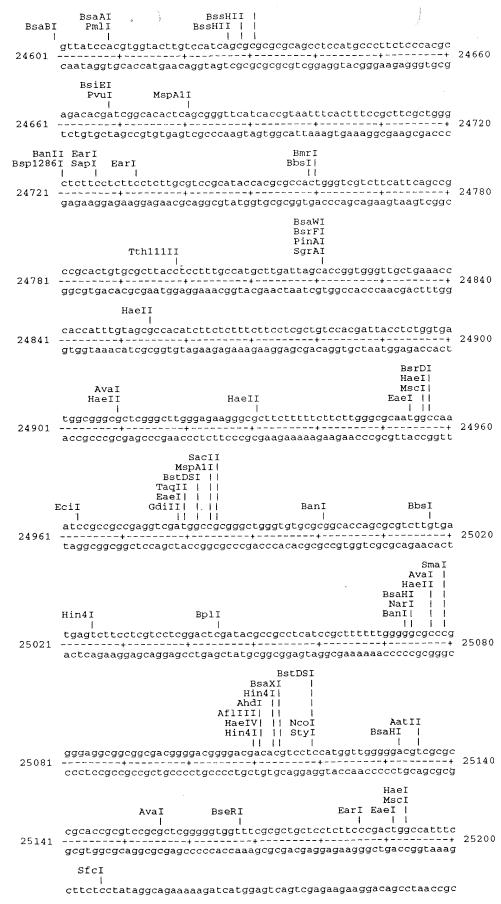


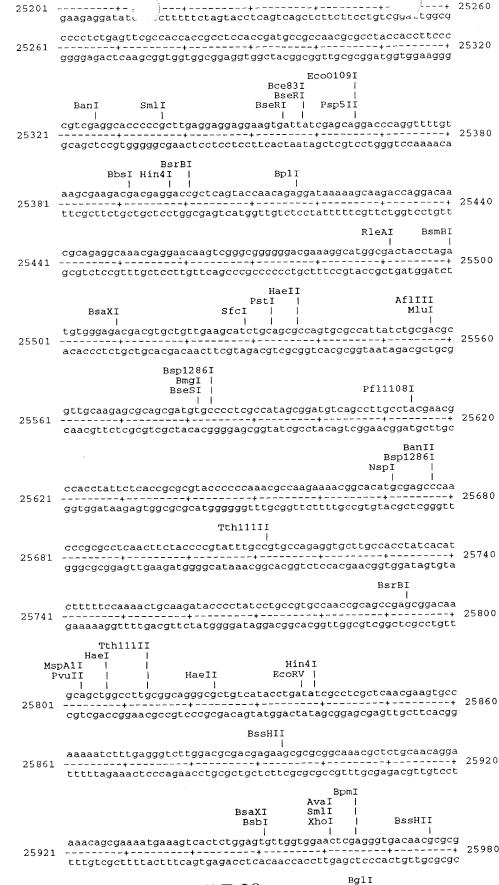
Gdi BsiHKAI

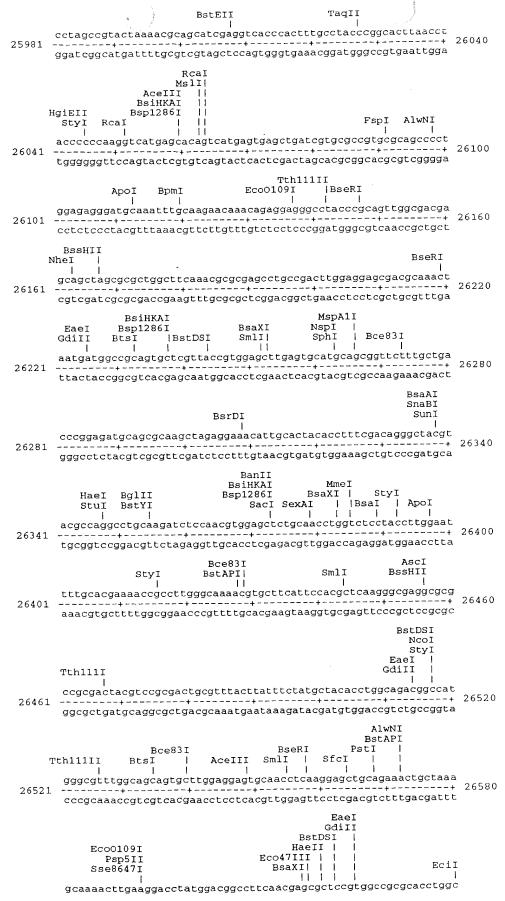
gtttctccacgcctttgccaactggccccaaactcccatggatcacaaccccaccatgaa

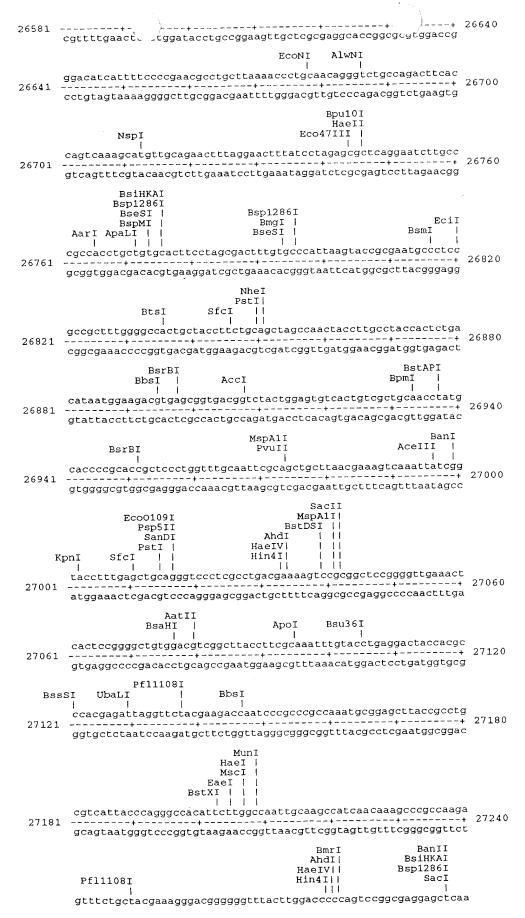


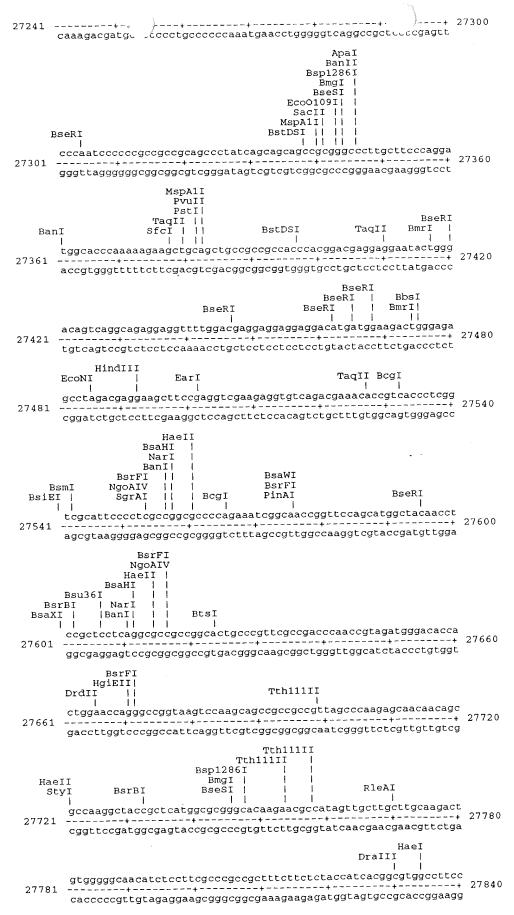
```
Bsp1286I
                                           BmgI
                                          BseSI
   Hin4I
                         BplI
                               BstEII
                                         HgiEII
      gttgcactcgcaccgtagtggcatcaaaaggtgaccgtgcccggtctgggcgttaggata
      {\tt caacgtgagcgtggcatcaccgtagttttccactggcacgggccagacccgcaatcctat}
                                          Bpu10I
      AlwNI
      HaeII
       \verb|cagcgcctgcataaaagccttgatctgcttaaaagccacctgagcctttgcgccttcaga|\\
24061
       gtcgcggacgtattttcggaactagacgaattttcggtggactcggaaacgcggaagtct
                                                              BsiHKAI
                                                             Bsp12861
                                         EaeI
                                                 BglI
                                                              BseSI ||
            NspI
                                                 Sfil
                                                            ApaLI | ||
       gaagaacatgccgcaagacttgccggaaaactgattggccggacaggccgcgtcgtgcac
24121
       cttcttgtacggcgttctgaacggccttttgactaaccggcctgtccggcgcagcacgtg
                                                    BSaWT
                          BglII
                                                    BsrFI
                BsgI BsbI
       \tt gcagcaccttgcgtcggtgttggagatctgcaccacatttcggccccaccggttcttcac
24181
       \verb|cgtcgtggaacgcagccacaacctctagacgtggtgtaaagccggggtggccaagaagtg|
          Eco57I
          HaeI |
       gatettggcettgetagaetgeteetteagegegegetgeeegttttegetegteacate
       ctagaaccggaacgatctgacgaggaagtcgcgcgcgacgggcaaaagcgagcagtgtag
                 BSIHKAT
                Bsp1286I
                                                      AflII
             BsaAĪ
                                                 AccI SmlI
       catttcaatcacgtgctccttatttatcataatgcttccgtgtagacacttaagctcgcc
24301
       gtaaagttagtgcacgaggaataaatagtattacgaaggcacatctgtgaattcgagcgg
                                                    BanII
                                                   BssSI|
                                            Tth111II
                                             BsgI
                 MspA1I
                                          BstDSI
                                                       11
       \verb|ttcgatctcagcgcagcggtgcagccacaacgcgcagcccgtgggctcgtgatgcttgta|
       aagctagagtcgcgtcgccacgtcggtgttgcgcgtcgggcacccgagcactacgaacat
                                        PstI
                           PstI
        ggtcacctctgcaaacgactgcaggtacgcctgcaggaatcgccccatcatcgtcacaaa
24421
        ccagtggagacgtttgctgacgtccatgcggacgtccttagcggggtagtagcagtgttt
                                           BsiHKAI
                                          Bsp1286I
                                     MspA11|
                           MspA1I
                                   BstDSI | |
                            PvuII
                                   BseRI| ||
                                       11 11
        \verb|ggtcttgttgctggtgaaggtcagctgcaacccgcggtgctcctcgttcagccaggtctt|\\
 24481
        ccagaacaacgaccacttccagtcgacgttgggcgccacgaggagcaagtcggtccagaa
           BsiEI
         EaeI
         EagI
        GdiII
        gcatacggccgccagagcttccacttggtcaggcagtagtttgaagttcgcctttagatc
        \verb|cgtatgccggcggtctcgaaggtgaaccagtccgtcatcaaacttcaagcggaaatctag|\\
```

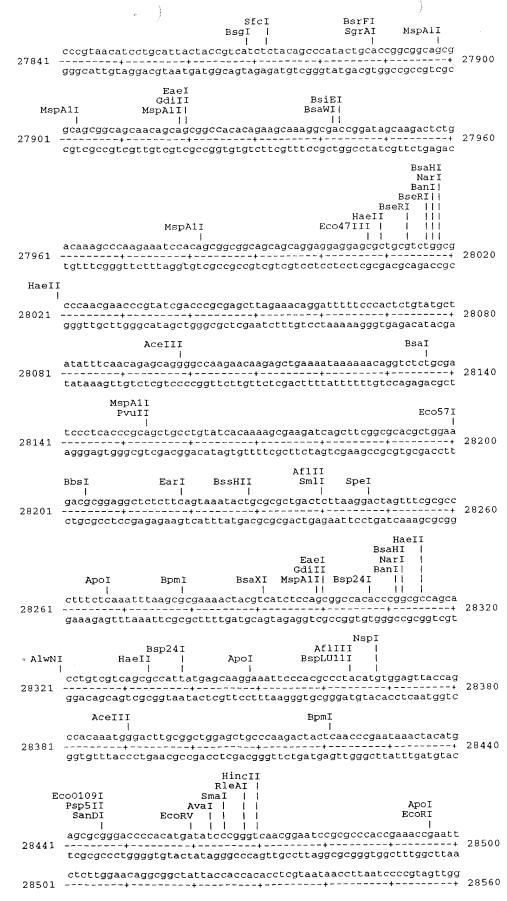


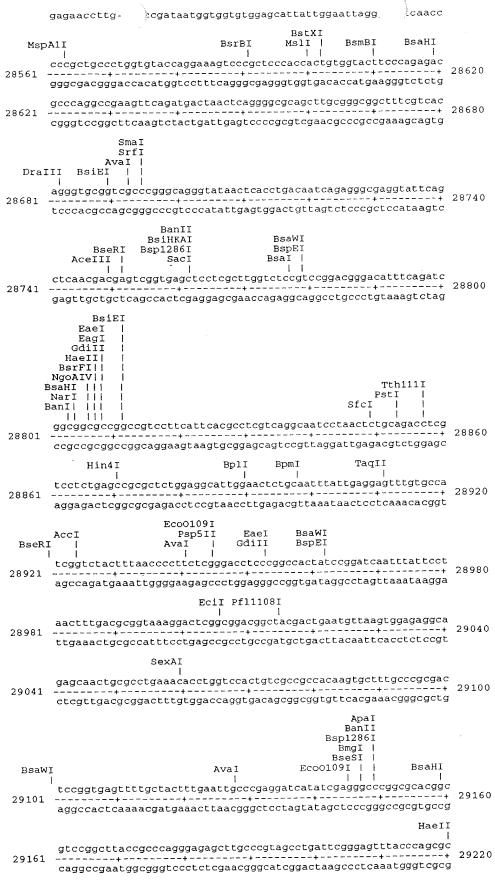


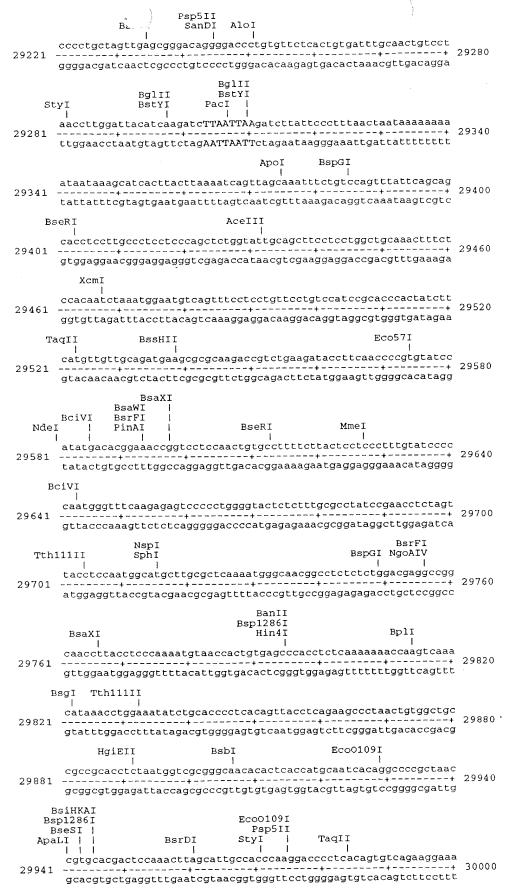


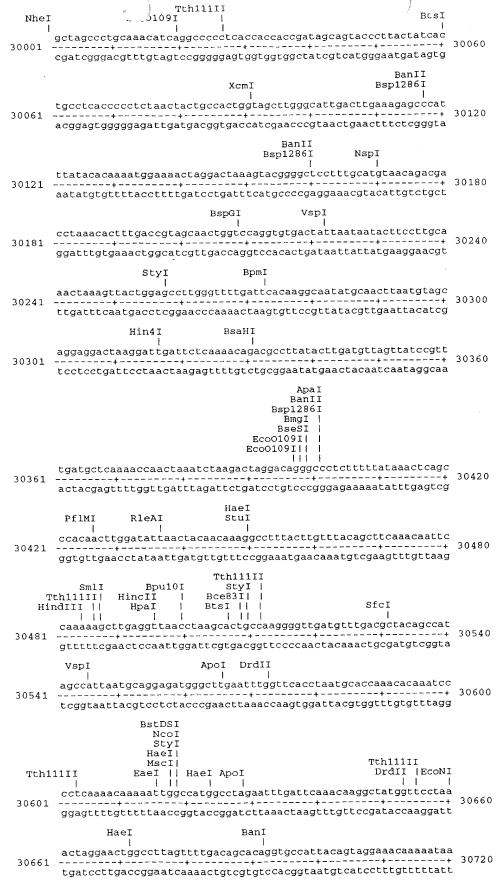


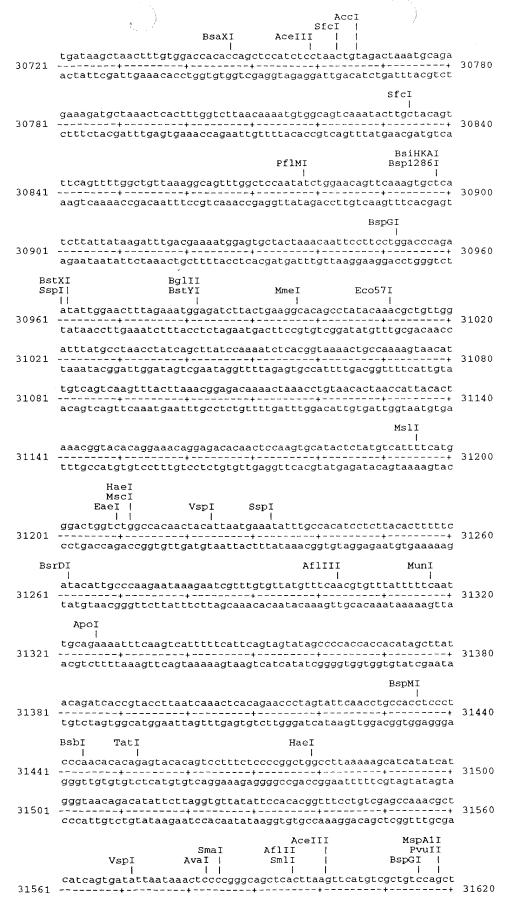


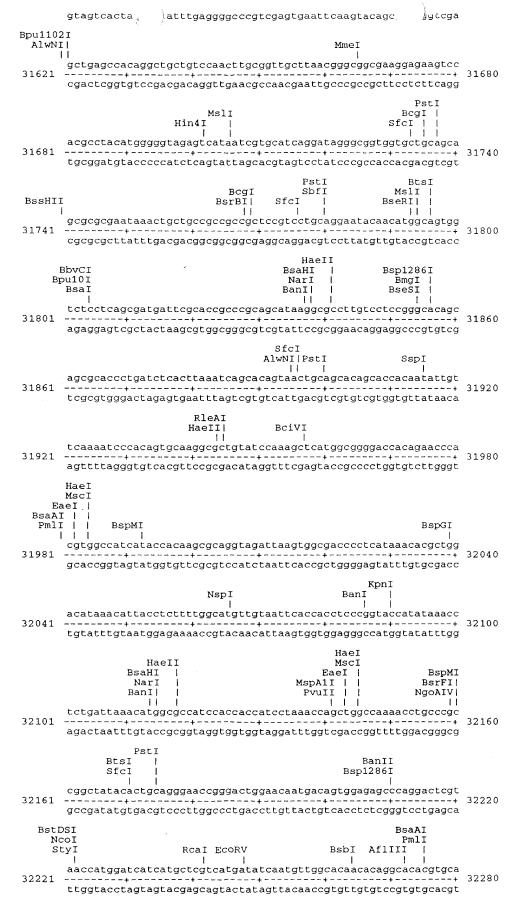


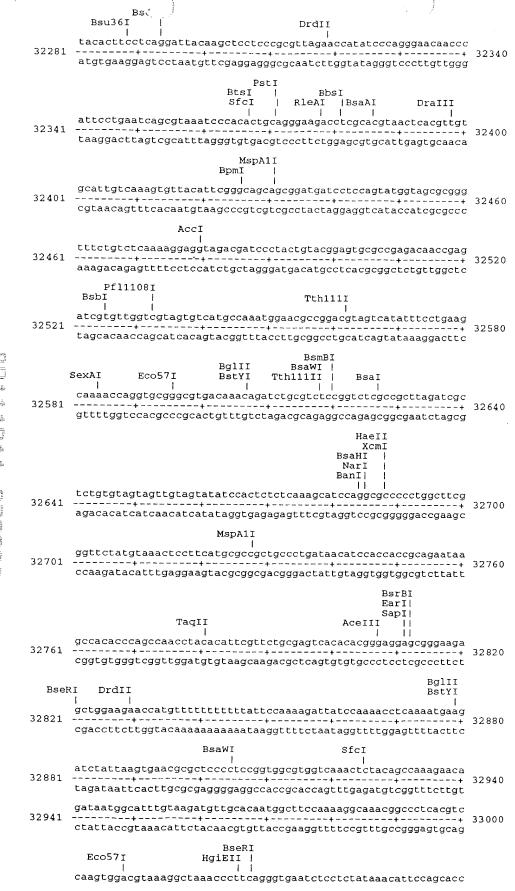


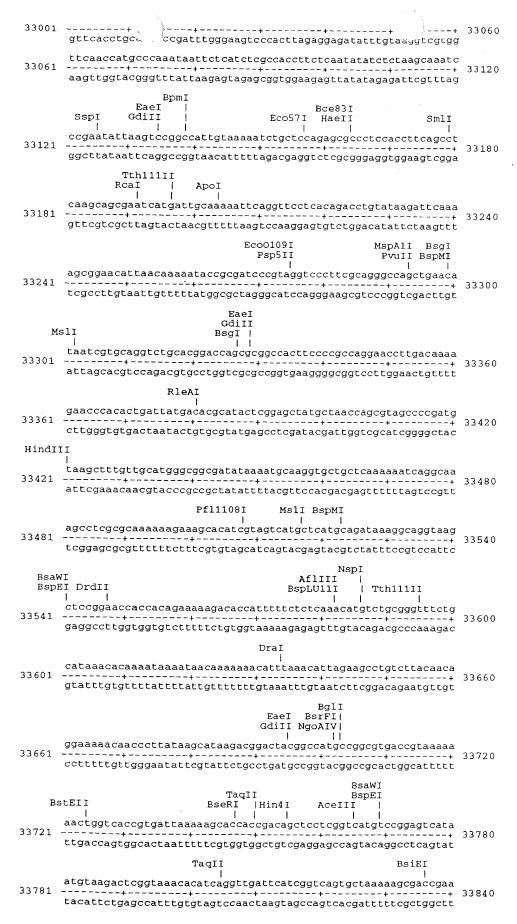












NspV

```
TaqII
            Smalt
         AvaI |
          atagcccgggggaatacatacccgcaggcgtagagacaacattacagcccccataggagg
   33841
                                                                        33900
          tatcgggccccttatgtatgggcgtccgcatctctgttgtaatgtcgggggtatcctcc
                VspI
                                                              StyI
          \verb|tataacaaaattaataggagaaaaaacacataaacacctgaaaaaaccctcctgcctagg|
   33901
          \verb|atattgttttaattatcctctttttgtgtatttgtggactttttgggaggacggatcc|
                                            HaeII
                                       Eco47III | MspA1I
          33961
                                                                        34020
          gttttatcgtgggagggcgaggtcttgttgtatgtcgcgaagtgtcgccgtcggattgtc
         \verb|tcagccttaccagtaaaaaaaaacctattaaaaaaaacaccactcgacacggcaccagc|
   34021
                                                                        34080
          agtcggaatggtcattttttcttttggataatttttttgtggtgagctgtgccgtggtcg
           AceIII
          34081
          agttagtcagtgtcacattttttcccggttcacgtctcgctcatatatccctgattttt
                                                    TaqII
         \verb|atgacgtaacggttaaagtccacaaaaaacacccagaaaaccgcacgcgaacctacgccc|
   34141
                                                                        34200
          {\tt tactgcattgccaatttcaggtgttttttgtgggtcttttggcgtgcgcttggatgcggg}
                                          RleAI
         {\tt agaaacgaaagccaaaaacccacaacttcctcaaatcgtcacttccgttttcccacgtt}
   34201
                                                                        34260
         \verb|tctttgctttcggttttttgggtgttgaaggagtttagcagtgaaggcaaaagggtgcaa|\\
     BsaAI
     SnaBI
                                           BsbI
                                                             Ecil
         acgtaacttcccattttaagaaaactacaattcccaacatacaagttactccgcccta
         \verb|tgcattgaagggtaaaattcttttgatgttaagggttgtgtatgttcaatgaggcgggat|\\
         aaacctacqtcaccccccttcccacqccccqcqccacqtcacaaactccacccctc
         tttggatgcagtggggggaagggtgcgggggggggtgcagtgtttgaggtgggggag
         {\tt attatcatattggcttcaatccaaaataaggtatattattgatgatg}
  34381
                                                          34427
         taatagtataaccgaagttaggttttattccatataataactactac
Enzymes that do cut:
    AarI
            AatII
                                          AclI
                                                  AflII
                                                           AflIII
                       AccI
                              AceIII
                                                                      AhdI
    AloI
            AlwNI
                                          ApoI
                                                                     AvrII
                       ApaI
                               ApaLI
                                                   AscI
                                                             AvaI
    Bael
             BamHI
                                          BbsI
                                                  BbvCI
                                                           Bce83I
                       BanI
                               BanII
                                                                      BcgI
   BciVI
             BclI
                       BglI
                               BglII
                                          BmgI
                                                   BmrI
                                                             BplI
                                                                      BpmI
  Bpu10I Bpu1102I
                       BsaI
                               BsaAI
                                         BsaBI
                                                  BsaHI
                                                            BsaWI
                                                                     BsaXI
    BsbI
            BseRI
                      BseSI
                                BsqI
                                         BsiEI
                                                BsiHKAI
                                                             BsmI
                                                                     BsmBI
  Bsp24I Bsp1286I
                      BspEI
                               BspĞI
                                                  BspMI
                                     BspLU11I
                                                                     BsrDI
   BSTFT
            BsrGI
                     BssHII
                               BssSI
                                        BstAPI
                                                 BstDSI
                                                           BstEII
                                                                     BstXI
          BstZ17T
   BSLYT
                     Bsu36T
                                REST
                                          ClaI
                                                   DraI
                                                           DraIII
                                                                      DrdI
   DrdII
                                          Ecil Eco47III
                                                           Eco57I
             EaeI
                                                                     ECONI
                       EagI
                                 Earl
Eco01091
            ECORI
                      EcoRV
                                                  GdiII
                                                             HaeI
                                FseI
                                          FspI
                                                                     HaeII
   HaeIV
           HgiEII
                      Hin4I
                              HincII
                                      HindIII
                                                   Hpa I
                                                             KpnI
    MmeT
             MscI
                       MslI
                              MspA1I
                                          MunI
                                                   Narl
                                                             NcoI
                                                                      NdeI
  NgoAIV
             NheI
                       NotI
                                NruI
                                          NsiI
                                                   NspI
                                                             PacI Pfl1108I
   PflMI
            PinAI
                       PmeI
                                PmlI
                                                 Psp5II
                                                             PstI
                                         PshAI
                                                                      PVUI
                                                  SacII
   PvuII
             RcaI
                      RleAI
                               RsrII
                                          SacI
                                                             SalI
                                                                     SanDI
    SapI
              sbfI
                       Scal
                               SexAI
                                                   sfil
                                                             SgfI
                                                                     SgrAI
    SmaI
              SmlI
                      SnaBI
                                 SpeI
                                          SphI
                                                    SrfI
                                                        Sse86471
                                                                      SspI
    StuI
              StyI
                       SunI
                                 SwaI
                                         TaqII
                                                    TatI
                                                          Tth1111 Tth1111
   UbaLI
             VspI
                       XbaI
                                XcmI
                                          XhoI
                                                   XmnI
Enzymes that do not cut:
```

